## Waterbury Rodgers Bedrock Compilation Sheet 2 (paper)

Map

## NOTICE!

Bedrock quadrangle 1:24,000 scale compilation sheets for the Bedrock Geological Map of Connecticut, John Rodgers, 1985, Connecticut Geological and Natural History Survey, Department of Environmental Protection, Hartford, Connecticut, in Cooperation with the U.S. Geological Survey, 1:125,000 scale, 2 sheets. [minimum 116 paper quad compilations with mylar overlays constituting the master file set for geologic lines and units compiled to the State map, some quads have multiple sheets depicting iterations of mapping]. Compilations drafted by Nancy Davis, Craig Dietsch, and Nat Gibbons under the direction of John Rodgers.

Geologic unit designation table translates earlier map unit nomenclature to the units ultimately used in the State publication.

This map set contains unpublished maps, cross-sections, and related information archived by the State Geological and Natural History Survey of Connecticut as part of the Survey Library Collection.

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QUADRANGLE REPORT NO. 22 73°07′30″ 41°37′30″ ⊢ 73°00′ **EXPLANATION** Hitchcock Lake Member Hitchcock Lake Member
Thin to thick interlayered finely streaked, oligoclase-quartz
granulites and coarsely streaked, mica-oligoclase-quartz
gneiss. Subordinate layers of a friable mica-plagioclasequartz granulite are present. Distinguished from the Straits
Schist by abundant biotite, lack of kyanite and increase in
total quartz-plagioclase. Hhla-Amphibolitic rocks interlayered with the granulites and gneisses, typically found at
base of The Straits Schist. Hartland Unit I member Fine-grained, light-gray muscovite-biotite-plagioclase-quartz granulite or granulitic gneiss. Subordinate layers of mica-plagioclase-quartz schist are present throughout. K kyanite-bearing mica-plagioclase-quartz granulite and granulitic gneiss. Calc-silicate layers are rare. Waterbury Formation pCw Mainly thin to thick interlayered assemblage of lightto dark-gray, fine- to medium-grained paragneisses com-posed of muscovite-biotite-oligoclase to andesine-quartz with kyanite a minor but ubiquitous mineral. Layering is re-lated to relative amounts of micas. Kyanite and garnet typically associated with micas. Migmatitic mixtures of the paragneisses and quartzofeldspathic material ranging in composition from trondhjemitic
to granitic predominate. Calc silicate pods are common.
pCwt Mainly trondhjemitic rocks composed of biotite,
quartz and andesine with subordinate granodioritic to
granitic rocks. These rocks intrude paragneisses but do Granite (G) and Granite Gneiss (GN) Fine- to medium-grained gray to white granite and granite gneiss composed of biotite, microcline, oligoclase, quartz and muscovite with accessory garnet, magnetite, sphene, apatite, allanite, tourmaline, zircon, and chlorite Amphibolite Fine- to coarse-grained, black to mottled black and white amphibolites composed of hornblende, andesine, quartz, and garnet with accessory sphene, ilmenite, and epidote. Several amphibolites carry abundant, coarse garnet crystals. HARTLAND FORMATION Southington Mountain Member Thinly interlayered fine- to medium-grained mica-oligoclase-quartz granulites and schists. Accessory garnet and kyanite are subordinate, particularly in comparison with The Straits Schist. Quartz pods are common. Peg-matites are abundant as dikes and sills. The Straits Schist Member A medium- to coarse-grained oligoclase-biotite-muscovite-quartz schist with garnet and kyanite porphyroblasts. Graphite ranges from very minor in amount to conspicuous. In the northeast corner of quadrangle, graphite is parti-cularly abundant. Accessory minerals are chlorite, apatite, rutile, sphene, tourmaline, zircon, staurolite, and magnetite. \*\*\*\* Isolated serpentinized ultra-basic rock composed mainly of serpentine with remanent olivine and orthopyroxene. Formational contacts. Dashed where inferred or approximately Intraformational contacts. Dashed where inferred or approximately located. Outcrop area. Where out-crop area is smaller than size of structural symbol, enclosure is omitted. Strike and dip of compositional layering and mica folia. Outcrop trend of layering and foliation where variable. Direction and plunge of meso-scopic fold axes. Generalized trend of crumpled lineations or fold axes. Variable plunges of fold axes. Horizontal fold axes. Vertical fold axes. Migmatites showing no regular layering or folding on outcrop Strike of vertical bedding or Strike of vertical foliation. Generalized strike and dip of crumpled or variable foliation or layering. Dip in direction of Generalized strike of crumpled layers showing plunge of fold 250 000 Horni mod Limation Williams & Heintz Map Corporation, Wash., D.C. 20027 GEOLOGIC MAP OF THE WATERBURY QUADRANGLE, CONNECTICUT Base map by U.S. Geological Survey Control by USGS, USC&GS, and Connecticut Geodetic Survey Bedrock Geology by Robert M. Gates, and Charles W. Martin 1962-64 opography from aerial photographs by multiplex methods Aerial photographs taken 1944. Field check 1948 SCALE 1:24000 Polyconic projection. 1927 North American datum 10,000-foot grid based on Connecticut coordinate system 6000 7000 FEET CONNECTICUT 3000 4000 5000 2000 1000 meter Universal Transverse Mercator grid ticks, zone 18, shown in blue 1 KILOMETER WATERBURY, CONN. QUADRANGLE LOCATION Copyright 1967 APPROXIMATE MEAN N4130-W7300/7.5 CONTOUR INTERVAL 10 FEET State of Connecticut DECLINATION, 1955 DATUM IS MEAN SEA LEVEL